TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location :BHEL 8th cross road

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:-BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21

Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Agency: Sri N. K. Shankar , M/s I S Infrastructure

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 30/12/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	30/12/2020	27/01/2021	509.8	22.66	22.99
2	30/12/2020	27/01/2021	518.7	23.05	
3	30/12/2020	27/01/2021	523.4	23.26	

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TEST REPORT ON FINE AGGREGATE

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	BHEL 8th cross road
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-NO.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	30/12/2020

Test Calculation for Culvert and Drain BHEL 8th cross road

SAMPLE ID: Sand Total Wt of Aggregate in Gms: 1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

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TEST REPORT ON STEEL

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	BHEL 8th cross road
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-NO.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	30/12/2020

Steel Test Calculation for Culvert and Drain BHEL 8th cross road

		For 8mm		For 10mm		For 12mm	
SL NO	Details	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008
1	Observed Dia of bar	8.0 mm	8.0 mm	10.0 mm	10.0 mm	12.0 mm	12.0 mm
2	Observed wt/m length(kg/m)	0.378	0.363	0.589	0.567	0.850	0.834
3	Proof Stress/Yield Stress fy =N/mm²	538	500	545	500	535	500

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location :At jyoti naidu layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:-BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21

Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Agency: Sri N. K. Shankar , M/s I S Infrastructure

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 25/12/2020

Concrete for culvert and Drains side walls

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	25/12/2020	22/01/2021	506.3	22.50	21.47
2	25/12/2020	22/01/2021	492.0	21.87	
3	25/12/2020	22/01/2021	518.4	23.04	

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location :At lakshmayyah reddy layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:-BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21

Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Agency: Sri N. K. Shankar , M/s I S Infrastructure

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 26/12/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	26/12/2020	23/01/2021	509.8	22.66	22.99
2	26/12/2020	23/01/2021	518.7	23.05	
3	26/12/2020	23/01/2021	523.4	23.26	

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TEST REPORT ON CEMENT

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At lakshmayyah reddy layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	30/12/2020

Test Calculation for Culvert and Drain At lakshmayyah reddy layout

SL no	Description	Test Method as per IS	Test Result	Remarks
1	a) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	b) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	a) 3 Days	Mpa	26	ok
	b) 7 Days	Mpa	37	ok

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location :Atbhaskarreddy layout

Client: Assistant Executive Engineer Division,YelahankaBBMP, Bangalore

Name of the Work Order No:-BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21

Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Agency: Sri N. K. Shankar , M/s I S Infrastructure

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting :30/12/2020

Concrete for culvert and Drains side walls

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	30/12/2020	27/01/2021	506.3	22.50	21.47
2	30/12/2020	27/01/2021	492.0	21.87	
3	30/12/2020	27/01/2021	518.4	23.04	

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TEST REPORT ON CEMENT

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At bhaskarreddy layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	29/12/2020

Test Calculationfor Culvert and Drain Atbhaskarreddy layout

SL no	Description	Test Method as per IS	Test Result	Remarks
1	a) Initial setting time	IS: -4031 (part-5)	128 Minutes	ok
	b) Final setting time	IS: -4031 (part-5)	460Minutes	ok
2	Soundness	IS: 4031 (part-3) La-Chatelier method	3.0 mm	ok
3	Standard Consistency	IS: -4031 (part-4)	25.00%	ok
4	Compressive Strength			
	a) 3 Days	Mpa	26	ok
	b) 7 Days	Mpa	37	ok

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TEST REPORT ON FINE AGGREGATE

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At bhaskarreddy layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-NO.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	29/12/2020

Test Calculation for Culvert and Drain Atbhaskarreddy layout

SAMPLE ID:Sand TotalWt of Aggregate in Gms: 1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

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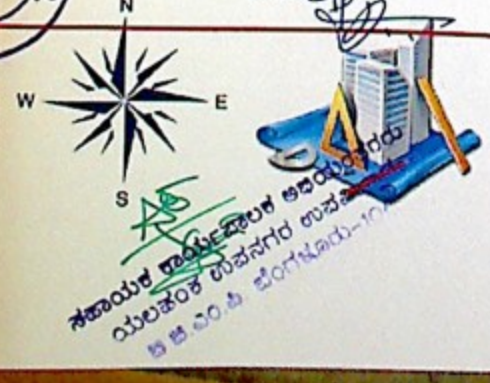

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location :At Subhaschandra Bose road

Client: Assistant Executive Engineer Division,YelahankaBBMP, Bangalore

Name of the Work Order No:-BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21

Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Agency: Sri N. K. Shankar , M/s I S Infrastructure

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting :25/12/2020

Concrete for culvert and Drains side walls

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	25/12/2020	22/01/2021	506.3	22.50	22.93
2	25/12/2020	22/01/2021	523.4	23.26	
3	25/12/2020	22/01/2021	518.4	23.04	

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TEST REPORT ON COARSE AGGREGATE

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At lakshmayyah reddy layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-NO.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	30/12/2020

Test Calculation for Culvert and Drain At lakshmayyah reddy layout

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

Total Wt of Aggregate in Gms: 2300

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TEST REPORT ON STEEL

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At lakshmayyah reddy layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-NO.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	30/12/2020

Steel Test Calculation for Culvert and Drain At lakshmayyah reddy layout

		For 8mm		For 10mm		For 12mm	
SL NO	Details	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008	Test Results	Min req as per IS 1786-2008
1	Observed Dia of bar	8.0 mm	8.0 mm	10.0 mm	10.0 mm	12.0 mm	12.0 mm
2	Observed wt/m length(kg/m)	0.378	0.363	0.589	0.567	0.850	0.834
3	Proof Stress/Yield Stress fy N/mm²	538	500	545	500	535	500

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location :AT prakruti layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:-BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21

Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Agency: Sri N. K. Shankar , M/s I S Infrastructure

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 28/12/2020

Concrete for culvert and Drains side walls

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	28/12/2020	25/01/2021	506.3	22.50	21.47
2	28/12/2020	25/01/2021	492.0	21.87	
3	28/12/2020	25/01/2021	518.4	23.04	

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location :AT prakruti layout

Client: Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore

Name of the Work Order No:-BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21

Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Agency: Sri N. K. Shankar , M/s I S Infrastructure

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting : 28/12/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	28/12/2020	25/01/2021	509.8	22.66	22.99
2	28/12/2020	25/01/2021	518.7	23.05	
3	28/12/2020	25/01/2021	523.4	23.26	

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TEST REPORT ON FINE AGGREGATE

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At prakruti layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-NO.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	25/12/2020
Submission Date:	30/12/2020

Test Calculation for Culvert and Drain At prakruti layout

SAMPLE ID: Sand Total Wt of Aggregate in Gms: 1350

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
10	0	0	0	100	100
4.75	30	30	2.22	97.78	90-100
2.36	62	92	6.81	93.82	75-100
1.18	90	182	13.48	86.52	55-90
600 Micron	480	662	49.03	50.97	35-59
300 Micron	358	1020	75.55	24.45	8-30
150 Micron	325	1345	99.62	0.38	0-10

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TEST REPORT ON M20 GRADE CONCRETE

Name of work: Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)

location :At Subhaschandra Bose road

Client: Assistant Executive Engineer Division,YelahankaBBMP, Bangalore

Name of the Work Order No:-BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21

Agreement No:- BBMP/EE/YNK/E-PMT-NO -5/AG/ 149 /2020-21

Agency: Sri N. K. Shankar , M/s I S Infrastructure

Size of cubes : 150 x150 x 150 mm

Cross Sectional area : 22500 mm2

Grade of concrete : M20

Compressive Strength as on : 28 Days

Date of casting :25/12/2020

Concrete for culvert slabs and Drain slabs

28 Days test Results

Sl no	Date of casting	Date of testing	Failure load	Compressive Strength (N/mm2)	Average Compressive Strength (N/mm2)
1	25/12/2020	22/01/2021	509.8	22.66	22.99
2	25/12/2020	22/01/2021	518.7	23.05	
3	25/12/2020	22/01/2021	523.4	23.26	

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TEST REPORT ON COARSE AGGREGATE

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At Subhas Chandra Bose road
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-NO.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	24/12/2020
Submission Date:	29/12/2020

Test Calculation for Culvert and Drain Atsubhaschandrabose road

IS Sieve Size in mm	Weight of Retained (gms)	Cumulative Weight of Retained (gms)	Cumulative % of Retained (gms)	Cumulative % of passing	Percentage Passing for grading zone II as per IS 383-1970
40	0	0	0	100	100
20	195	195	8.125	91.87	95-100
10	1150	1345	56.04	43.96	25-55
4.75	955	2300	95.87	4.125	0-10

Total Wt of Aggregate in Gms: 2300

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	=N/mm²						
4	Percentage of Elongation (%)	21.70	16	22.35	16	22.70	16
5	Ultimate Tensile Strength N/mm²	615	565	605	565	618	565
6	Bend/Re-Bend test	ok		ok		ok	

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REPORT ON GRANULAR SUB BASE COURSE (GSB)

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At BHEL 8th Cross Road
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	11/01/2021
Submission Date:	16/01/2021

Mix Design of Granular Sub-Base (GSB). Close Graded - II

Sieve Size mm	Materials A % (40mm)	Materials B % (20mm)	Materials C % (12.5mm)	Materials D % (6mm)	Materials E % (4.75mm)	Obtained gradation	Desired gradation	Remarks
3.000	100	100.00	100.00	100	100.00	100	100	Satisfactory may be followed
6.500	29.24	100.00	100	100.00	100.00	89.39	70-100	
.500	0.48	32.60	84.17	100.00	100.00	74.29	50-80	
.750		11.07	2.87	83.70	100.00	55.58	40-65	
.360		0.07	0.07	51.03	85.20	39.40	30-50	
.425				18.55	30.70	14.03	10-15	
075				3.55	3.50	1.97	0-5	

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REPORT ON GRANULAR SUB BASE COURSE (GSB)

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At BHEL 9th Cross Road
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	11/01/2021
Submission Date:	16/01/2021

Mix Design of Granular Sub-Base (GSB). Close Graded - II

Sieve Size mm	Materials A % (40mm)	Materials B % (20mm)	Materials C % (12.5mm)	Materials D % (6mm)	Materials E % (4.75mm)	Obtained gradation	Desired gradation	Remarks
3.000	100	100.00	100.00	100	100.00	100	100	Satisfactory may be followed
6.500	29.24	100.00	100	100.00	100.00	89.39	70-100	
.500	0.48	32.60	84.17	100.00	100.00	74.29	50-80	
.750		11.07	2.87	83.70	100.00	55.58	40-65	
.360		0.07	0.07	51.03	85.20	39.40	30-50	
.425				18.55	30.70	14.03	10-15	
.075				3.55	3.50	1.97	0-5	

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Material A40mm = 15% **Job mix formula:**

Material B 20mm = 12% =15:12:17:26:30

Material C 12.5mm = 17%

Material D 6 mm down = 26%

Material E Quarry fines 4.75mm down = 30%

A: B: C: D: E

OMC =4.5%

MDD = 2.36gm/cc

Note: Test and mix design results are for the aggregates and bitumen

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REPORT ON GRANULAR SUB BASE COURSE (GSB)

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At Lakshmaiah Reddy Layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	10/01/2021
Submission Date:	15/01/2021

Mix Design of Granular Sub-Base (GSB). Close Graded - II

Sieve Size mm	Materials A % (40mm)	Materials B % (20mm)	Materials C % (12.5mm)	Materials D % (6mm)	Materials E % (4.75mm)	Obtained gradation	Desired gradation	Remarks
.000	100	100.00	100.00	100	100.00	100	100	Satisfactory may be followed
.500	29.24	100.00	100	100.00	100.00	89.39	70-100	
.500	0.48	32.60	84.17	100.00	100.00	74.29	50-80	
.750		11.07	2.87	83.70	100.00	55.58	40-65	
.360		0.07	0.07	51.03	85.20	39.40	30-50	
.425				18.55	30.70	14.03	10-15	
075				3.55	3.50	1.97	0-5	

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REPORT ON GRANULAR SUB BASE COURSE (GSB)

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At Sai Nagar
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	10/01/2021
Submission Date:	15/01/2021

ve ze m	Materials A % (40mm)	Materials B % (20mm)	Materials C % (12.5mm)	Materials D % (6mm)	Materials E % (4.75mm)	Obtained gradation	Desired gradation	Remarks
000	100	100.00	100.00	100	100.00	100	100	Satisfactory may be followed
500	29.24	100.00	100	100.00	100.00	89.39	70-100	
00	0.48	32.60	84.17	100.00	100.00	74.29	50-80	
50		11.07	2.87	83.70	100.00	55.58	40-65	
60		0.07	0.07	51.03	85.20	39.40	30-50	
25				18.55	30.70	14.03	10-15	
75				3.55	3.50	1.97	0-5	

Mix Design of Granular Sub-Base (GSB). Close Graded - II

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REPORT ON GRANULAR SUB BASE COURSE (GSB)

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, Amba Bhavani Nagara, Amba Bhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At Subhas Chandra Bose Road
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	09/01/2021
Submission Date:	14/01/2021

Mix Design of Granular Sub-Base (GSB). Close Graded - II

Sieve Size mm	Materials A % (40mm)	Materials B % (20mm)	Materials C % (12.5mm)	Materials D % (6mm)	Materials E % (4.75mm)	Obtained gradation	Desired gradation	Remarks
.000	100	100.00	100.00	100	100.00	100	100	Satisfactory may be followed
.500	29.24	100.00	100	100.00	100.00	89.39	70-100	
.500	0.48	32.60	84.17	100.00	100.00	74.29	50-80	
.750		11.07	2.87	83.70	100.00	55.58	40-65	
360		0.07	0.07	51.03	85.20	39.40	30-50	
425				18.55	30.70	14.03	10-15	
075				3.55	3.50	1.97	0-5	

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FIELD DENSITY OF WMM

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	Subhas Chandra Bose main road
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	17/01/2021
Submission Date:	24/01/2021

Test Results – Existing Wet mix Samples

Sample N0	Location	Modified proctor density g/cc	OMC In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	Jyotinaidu layout 2nd stage	2.24	5.11	2.20	5.04	98.66
2	Jyotinaidu layout 2nd stage	2.25	5.15	2.21	5.05	98.21
3	Jyotinaidu layout 2nd stage	2.24	5.11	2.20	5.04	98.19
4	Jyotinaidu layout 2nd stage	2.24	5.11	2.20	5.03	98.64

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FIELD DENSITY OF WMM

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	At jyotinaidu layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	17/01/2021
Submission Date:	24/01/2021

Test Results – Existing Wet mix Samples

	Location	Modified proctor density g/cc	OMC In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
5	Jyotinaidu layout 2nd stage	2.24	5.11	2.20	5.04	98.66
6	Jyotinaidu layout 2nd stage	2.25	5.15	2.21	5.05	98.21
7	Jyotinaidu layout 2nd stage	2.24	5.11	2.25	5.0	98.19
8	Jyotinaidu layout 2nd stage	2.24	5.10	2.20	5.02	98.64

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FIELD DENSITY OF WMM

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	Jyoti Nagar
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code

Sample NO	Location	Modified proctor density g/cc	OMC In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	2nd cross Road	2.21	5.15	2.20	5.03	98.7
2	3rd cross Road	2.27	5.12	2.19	5.05	98.20
3	4th cross Road	2.27	5.12	2.19	5.05	98.20
4	5th cross Road	2.22	5.18	2.21	5.05	98.25
5	Connecting main road	2.20	5.15	2.20	5.01	98.21

Date of Testing:	17/01/2021
Submission Date:	24/01/2021

Test Results - Existing Wet mix Samples

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FIELD DENSITY OF WMM

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	Lakshmaiah Reddy Layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	17/01/2021
Submission Date:	24/01/2021

Test Results – Existing Wet mix Samples

Sample NO	Location	Modified proctor density g/cc	OMC In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	Lakshmaiah Reddy Layout	2.24	5.10	2.20	5.04	98.66
2	Lakshmaiah Reddy Layout	2.25	5.15	2.21	5.05	98.21
3	Lakshmaiah Reddy Layout	2.23	5.19	2.23	5.04	98.19
4	Lakshmaiah Reddy Layout cross road	2.20	5.11	2.21	5.03	98.62
5	Lakshmaiah Reddy Layout cross road	2.09	5.10	2.20	5.04	98.65

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FIELD DENSITY OF WMM

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	BHEL 8TH cross road Layout
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	17/01/2021
Submission Date:	24/01/2021

Test Results – Existing Wet mix Samples

Sample N0	Location	Modified proctor density g/cc	OM C In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	BHEL 8TH cross road Layout	2.25	5.15	2.21	5.05	98.1
2	BHEL 8TH cross road Layout	2.23	5.10	2.23	5.04	98.05
3	BHEL 8TH cross road Layout	2.24	5.12	2.20	5.03	98.2
4	BHEL 8TH cross road Layout	2.20	5.11	2.21	5.02	98.6

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FIELD DENSITY OF WMM

Name of work:	Improvements to Asphalting to Roads and Drains at Best County, AmbaBhavaniNagara, AmbaBhavani Layout, Prakruthi Layout and Surrounding Areas ward No-03 of Yelahanka division (Package No- 06)
Location:	BHEL 9TH cross road Layout.
Client:	Assistant Executive Engineer Division, Yelahanka BBMP, Bangalore
Name of the Agency:	Sri N. K. Shankar , M/s I S Infrastructure
Reference:	BBMP/EE/YNK/E-PMT-No.-5/W.O/ 178 /2020-21
Condition of Samples:	Satisfactory
Test According to:	Relevant IS code
Date of Testing:	17/01/2021
Submission Date:	24/01/2021

Test Results – Existing Wet mix Samples

Sample N0	Location	Modified proctor density g/cc	OM C In %	Field Density in g/CC	Field Moisture Content in %	Compaction In %
1	BHEL 9TH cross road Layout.	2.25	5.15	2.21	5.05	98.1
2	BHEL 9TH cross road Layout.	2.23	5.10	2.23	5.04	98.05
3	BHEL 9TH cross road Layout.	2.24	5.12	2.20	5.03	98.2
4	BHEL 9TH cross road Layout.	2.20	5.11	2.21	5.02	98.6

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